#### Work Order ID 65985

Tuesday, February 01, 2011 7:08:31 AM

Item ID:

D3391-023

Revision ID:

Item Name:

Required Date: 2/4/2011

Mid Tube Assembly

**Start Date:** 

2/1/2011

Req'd Qty: 1.00

Start Qty: 1.00



Accept





Setup Start

Stop



Page 1

Reference:

Approvals:

QC:

Date:

**Tooling:** 

0.00

0.00

SPC (Y/N):

Date:

Cust Item ID:

**Customer:** 

Date:

Run Start

Stop



Sequence ID/ Work Center ID

Operation **Description** 

Set Up/ **Run Hours**  Tool ID

Tool # Plan Code

Accept Qty

 $\lambda$ 

Reject Qty

Reject Number

Stamp

Draw Nbr

**Revision Nbr** 

D3391

100

Rev H

Skidtubes

Skidtubes

Skidtubes

Memo

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

.8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to 00.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to 00.297" (20 holes) as per Dwg D3391

Item ID:

D3391-023

Accept

Setup Start



**Revision ID:** 

Item Name: Mid Tube Assembly

**Start Date:** 

2/1/2011

Start Qty: 1.00

Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Required Date: 2/4/2011

Process Plan:

Date:

**Tooling:** 

Date:

Run Start

QC:

Date:\_\_\_\_\_

SPC (Y/N):

Date:

Stop

Stop

Sequence ID/ Work Center ID **Operation Description**  Set Up/ **Run Hours**  Tool ID

Tool # Plan

Code

Accept Qty

Reject Reject Qty

Insp. Number

Stamp

11-Open .375" holes to .438" \*\*\*do not open fwd saddle holes\*\*\*

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into Q3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021. W \int

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

#### Work Order ID 65985

Tuesday, February 01, 2011 7:08:31 AM

Item II	<b>n</b> •

D3391-023

**Revision ID:** Item Name:

Mid Tube Assembly

**Start Date:** 

2/1/2011

Start Qty: 1.00

Required Date: 2/4/2011

Req'd Qty: 1.00



Accept



Setup Start

Stop



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

QC:

**Process Plan:** 

Date: Date: **Tooling:** 

SPC (Y/N):

Set Up/

Date: Date: Run

Start



Stop

Sequence ID/ Work Center ID

110

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

11/02/01

**Run Hours** 

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

0.00

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

Memo

Memo

0.00

130

QC

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

11-2-1

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Stamp

#### Work Order ID 65985



Tuesday, February 01, 2011 7:08:31 AM Item ID: D3391-023 Accept Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly Start Qty: 1.00 **Start Date:** 2/1/2011 **Cust Item ID:** Required Date: 2/4/2011 Req'd Qty: 1.00 **Customer:** Reference: Run Start **Process Plan:** Approvals: **Date:** \_\_\_\_\_ Tooling: Date: Stop QC: \_\_\_\_\_ Date: \_\_\_\_ SPC (Y/N): Date: \_\_\_\_\_ Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Work Center ID Description **Run Hours** Code Qty Qty Number 140 0.00 Skidtubes Skidtubes 0.00 Memo Skidtubes 1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg 3- Prepare tube for welding 4-Bond web in place as per Dwg D3391 & OSI 015. Adhere for 12 hours) A/R Sikaflex exp: 11-9-30 batch#: M11604 150 QC5- Inspect part completeness to step on W/O 0.00 0.00 Memo Quality Control

0.00

160

Skidtubes

Skidtubes

Memo

0.00

Skidtubes

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

1 D BE1/02/02

#### Work Order ID 65985

Tuesday, February 01, 2011 7:08:31 AM

Item	ID.
1 tCIII	117.

D3391-023

**Revision ID:** 

Mid Tube Assembly Item Name:

**Start Date:** 

2/1/2011

Start Qty: 1.00

Required Date: 2/4/2011

Req'd Qty: 1.00



Accept



Setup Start

Stop

Start

Reject

Qty



**Cust Item ID:** 

Reference:

Approvals:

Process Plan:

Date: Date:

**Tooling:** 

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Tool ID

**Customer:** 

Date:

Code

Tool # Plan

Stop

Accept

Qty

Run

Insp.

Number Stamp

Reject

Sequence ID/ Work Center ID

170

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

QC5- Inspect part completeness to step on W/O

8 moloz

0.00

180

Quality Control

Memo

Memo

0.00

185

HandFinish Hand Finishing

Pressure Wash per QSI005 4.3

Memo

0.00

AND REALODINE AS PER PAR09-043

1 BR-11-02-3.

Page 6

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Required Date: 2/4/2011

Mid Tube Assembly

Start Date:

2/1/2011

Start Oty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date: Date: Tooling:

0.00

0.00

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Date:

Tool # Plan

Code

Run

Accept

Otv

Stop

Reject

Reject

Otv

Start

Stop



Number Stamp

Insp.

Sequence ID/ Work Center ID

190

Powdercoat

Powder Coating

**Operation** Description

White Gloss(Ref:4.3.5.1) per OSI005 4.3-Alum

Memo

FINISH TIME:

200

**Quality Control** 

QC3- Inspect Part Finish

Memo

0.00

=, el 11/02/03

0.00

#### Work Order ID 65985

Tuesday, February.01, 2011 7:08:31 AM

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Item	ID.

D3391-023

Accept



Setup Start



**Revision ID:** 

**Item Name:** 

Required Date: 2/4/2011

Mid Tube Assembly

**Start Date:** 

2/1/2011

Start Qty: 1.00

**Req'd Qty:** 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

**Process Plan:** 

Date:

Date:

Tooling:

0.00

SPC (Y/N):

Date: Date: Run Start

Stop



Sequence ID/ Work Center ID

210

Skidtubes

Skidtubes

Operation Description

Set Up/ **Run Hours** 

Tool # Plan

Qty Code

Reject Accept Qty

Reject Number

Insp. Stamp

Skidtubes

Memo

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

Memo

0.00

PER CUST. Request.

220

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Tuesday, February 01, 2011 7:08:31 AM



Page 8

Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

2/1/2011

Start Qty: 1.00

Required Date: 2/4/2011

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan:

Date:

Tooling:

Date:

Run

Reject

Qty

Start

Date: \_\_\_\_\_ SPC (Y/N):

Date:

Tool # Plan

Code

Stop

Reject Insp. Number Stamp

**Work Center ID** 230

Sequence ID/

HandFinish

Hand Finishing

Operation **Description** 

HandFinishing

Memo Install Inserts as per Dwg Set Up/ **Run Hours** 

11/02/03

Tool ID

Accept

Qty

240

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

250

Packaging

Packaging

Memo

Memo

Identify as per dwg & Stock Location:\_

0.00

0.00

03564-3 B66000

\_\_\_Dart Aerospace Ltd

W/0: 6	5985	WORK ORDER CHANGES													
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector								
11/02/03	230	install => (IX) D3564-5/B65058 (wear plate) (IX) D3566-5/B64 789 (GASKET)	JJL	11/02/03	X		Culus								
11 102/03	230	wiht =) (12x) AN3C-4A/M116675 (bolts)  (12x) NASING (0 332R/ M116025 (washers)	Jul	11/02/03	X12 X12		Side								

Part No: <u>D3391-023</u> 1	PAR #: Fa	ault Category:	NCR: Yes No	DQA:	Date:
Resolution:	Dis	sposition:	QA: N/C Closed:		Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)													
		Description of NC		Corrective Action Section B		Verification	Approval	Approval							
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector							
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#### Work Order ID 65985

Tuesday, February 01, 2011 7:08:31 AM

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D3391-023

**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

2/1/2011

QC:

Start Qty: 1.00

Required Date: 2/4/2011

Req'd Qty: 1.00

**Operation** 

Description



Accept



Setup Start





**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

**Process Plan:** 

Date:

Date:

**Tooling:** 

**SPC (Y/N):** 

Set Up/

Date:

Date:

Run

Start Stop

Sequence ID/

Work Center ID

260

Memo

QC21- Final Inspection - Work Order Release

**Run Hours** 

0.00

Tool # Plan Qty Code

Reject Accept Qty

Reject Number Stamp

Insp.

Quality Control

0.00

MF 11-02-04

#### Picklist Print

Tuesday, February 01, 2011 7:08:28 AM

Work Order ID: 65985

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 2/1/2011

Required Date: 2/4/2011

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A 05.10.20 New Issue

IPP BI106.02.10[ iECN773 dwg rev.D

KJ/ECH ECI !

IPP C 07.03.20 rev F dwg EC

IPP D 07.03.28

EC

re-format IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100  Skidtube Extrusion		Manufactured	No			100	Each	116.0000	1	1	BEI	1/62/6	· · · · · · · · · · · · · · · · · · ·
				Location	<u>1</u>	Loc (	<u>Qty</u>	Loc Code				•	
				LG	÷		116	•					
1.0					37065		33		_		_		
	N				50251		83				_		
D3391-021	η	Manufactured	No			100	Each	0.0000	1	1			
Fwd Tube Assembly	Mostoner M	Manufactured	ube	only	$\bigvee$								
D3389-1	V- V- 1	Manufactured	No	{		140	Each	3.0000	1	1			
		•											

Location Loc Qty Loc Code LG 63343 64877

Web

Tuesday, February 01, 2011 7:08:28 AM

Work Order ID: 65985

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



**Start Date: 2/1/2011** 

Required Date: 2/4/2011

Start Qty: 1.00

Required Qty: 1.00



Spacer

D3681-1

Location	Loc Qty
LG	51
56802	14
57656	12

63321 64620

210

230

160

51.0000

Manufactured

Manufactured

No

Bushing

D3591-1

ALS4-1032-130

No

Location ST072

47121 57350

Loc Qty

31

2

29

Each

51 14

Each

31.0000

Loc Code

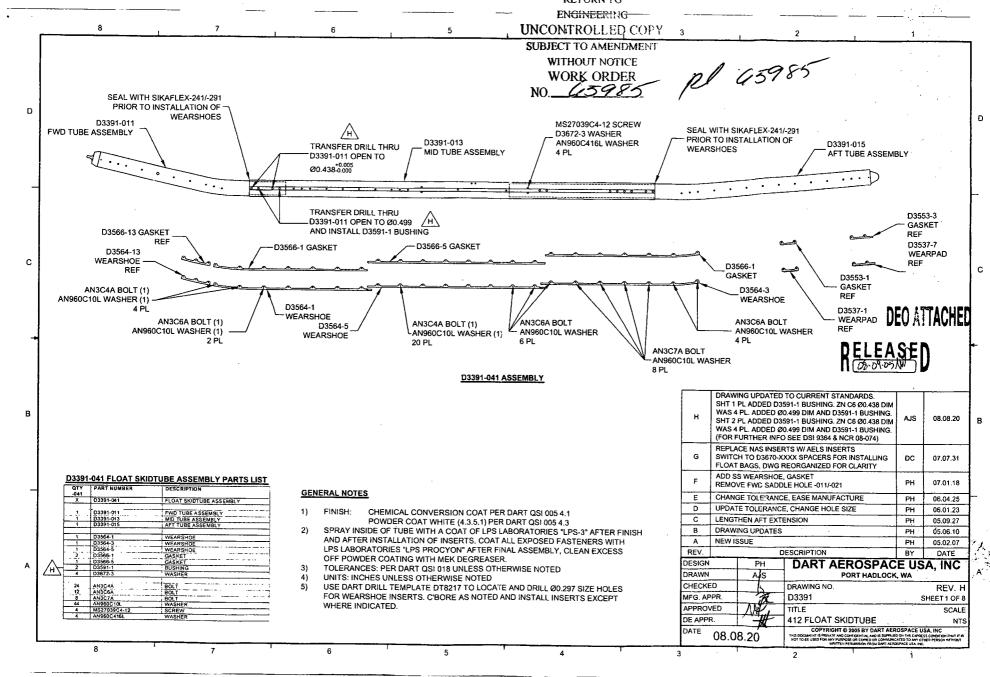
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∙ALS4-1032-130 ∠	Purchased

Insert

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114723	480	1 (	05 X
ST281	192		
116049	192		
ST282	96	` <del></del>	
110511	10		
115911	86		
ST381	39		
114654	39		



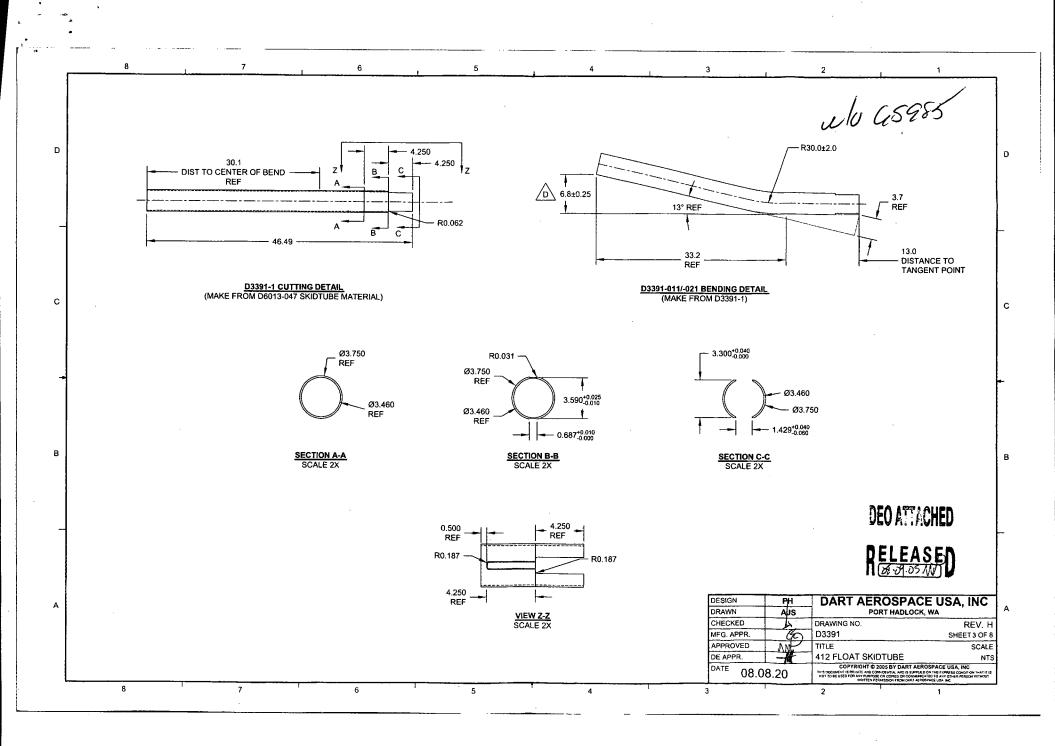
### **Dart Aerospace Ltd**

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W/O:		***************************************	WC	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:			WORK ORD	ER NON-CONFORMA	ANCE (NO	R)			
DATE	STEP	Description of NC		Corrective Action Section			cation	n Approval	Approval
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D SEAL WITH SIKAFLEX-241/-291 PRIOR TO INSTALLATION OF WEARSHOES D3391-021 SEAL WITH SIKAFLEX-241/-291 FWD TUBE ASSEMBLY PRIOR TO INSTALLATION OF D3391-023 D3391-025 TRANSFER DRILL THRU WEARSHOES MID TUBE ASSEMBLY AFT TUBE ASSEMBLY D3391-021 OPEN TO Ø0.438-0.005 TRANSFER DRILL THRU D3553-3 D3391-021 OPEN TO Ø0.499 GASKET AND INSTALL D3591-1 BUSHING REF D3566-13 GASKET - D3566-5 GASKET -D3566-1 GASKET D3564-13 WEARSHOE D3537-7 D3566-1 REE D3553-1 WEARPAD GASKET GASKET RFF D3564-3 AN3C4A BOLT RFF WEARSHOE AN960C10L WASHER D3537-1 D3564-1 WEARPAD WEARSHOE AN3C6A BOLT AN3C6A BOLT AN3C6A BOLT REF D3564-5 AN960C10L WASHER AN960C10L WASHER AN3C4A BOLT AN960C10L WASHER 4 PL WEARSHOE 2 PI AN960C10L WASHER AN3C7A BOLT AN960C10L WASHER 8 PL D3391-043 ASSEMBLY D3391-043 FLOAT SKIDTUBE ASSEMBLY PARTS LIST DEO ATTACHED **GENERAL NOTES** DESCRIPTION FLOAT SKIDTUBE ASSEMBLY CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 POWDER COAT WHITE (4.3.5.1) PER DART OSI 005 4.3 SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES 'LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS, COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER. TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED UNITS: INCHES UNLESS OTHERWISE NOTED USE DART DRILL TEMPLATE DT8217 TO LOCATE AND DRILL Ø0.297 SIZE HOLES FOR WEARSHOE INSERTS. C'BORE AS NOTED AND INSTALL INSERTS EXCEPT DESIGN DART AEROSPACE USA, INC WHERE INDICATED. DRAWN PORT HADLOCK, WA CHECKED DRAWING NO. REV. H MFG. APPR. D3391 SHEET 2 OF 8 APPROVED TITLE SCALE DE APPR. 412 FLOAT SKIDTUBE COPYRIGHT @ 2005 BY DART AEROSPACE USA, INC. DATE 08.08.20 2

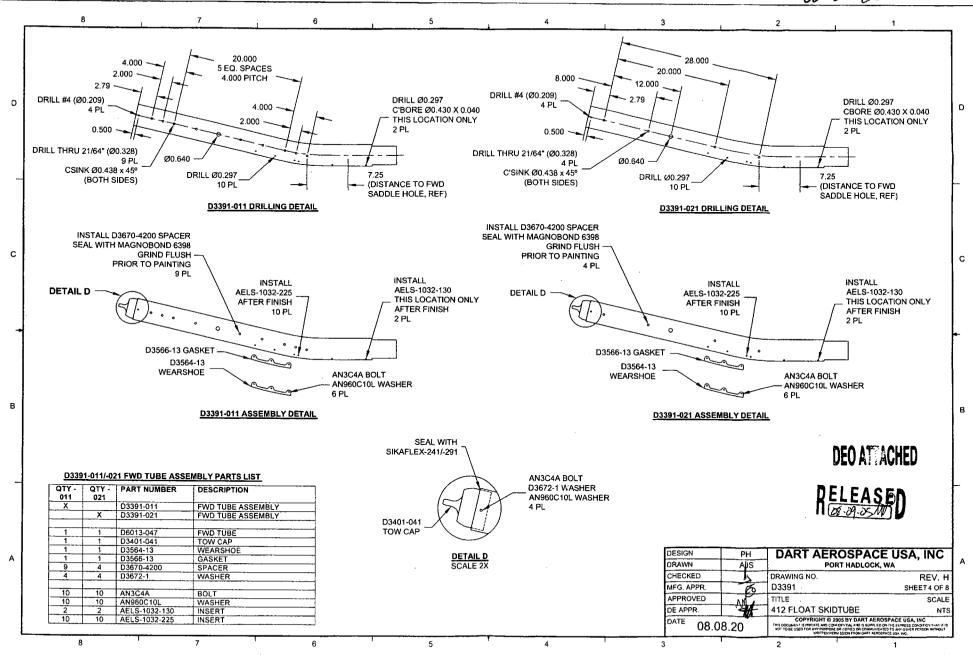
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W/O:			WO	RK ORDER CHANG	ES				
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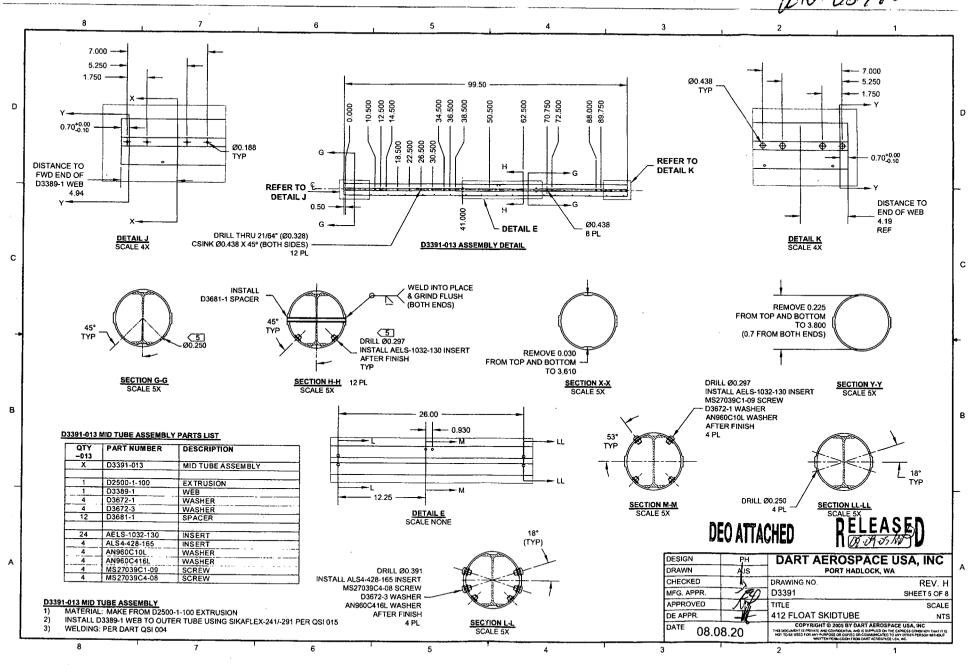
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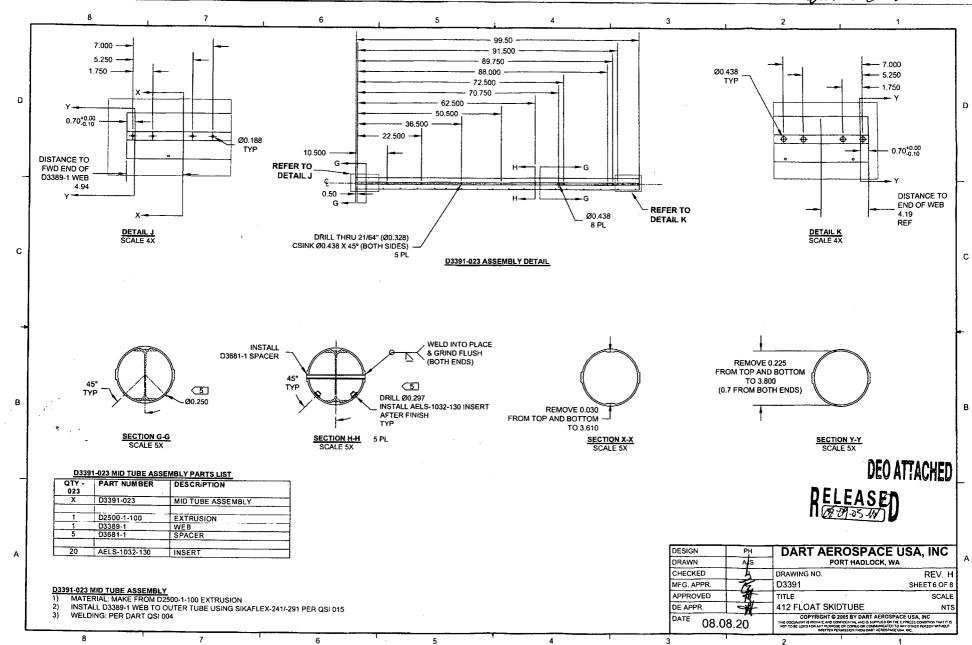
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W/O:			WC	ORK ORDER CHANG	ES				•
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DATE	STEP	Description of NC		Corrective Action Section		Verif	cation	Approval	Approval
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#### **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: Approval Approval PROCEDURE CHANGE DATE STEP Bv Date Qtv Chief Eng / QC Inspector Prod Mar Part No: \_\_\_\_\_\_ PAR #: \_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B **Description of NC** Verification **Approval Approval STEP** DATE Sign & **Action Description** Initial QC Inspector Section A Section C Chief Eng Date Chief Eng Chief Eng

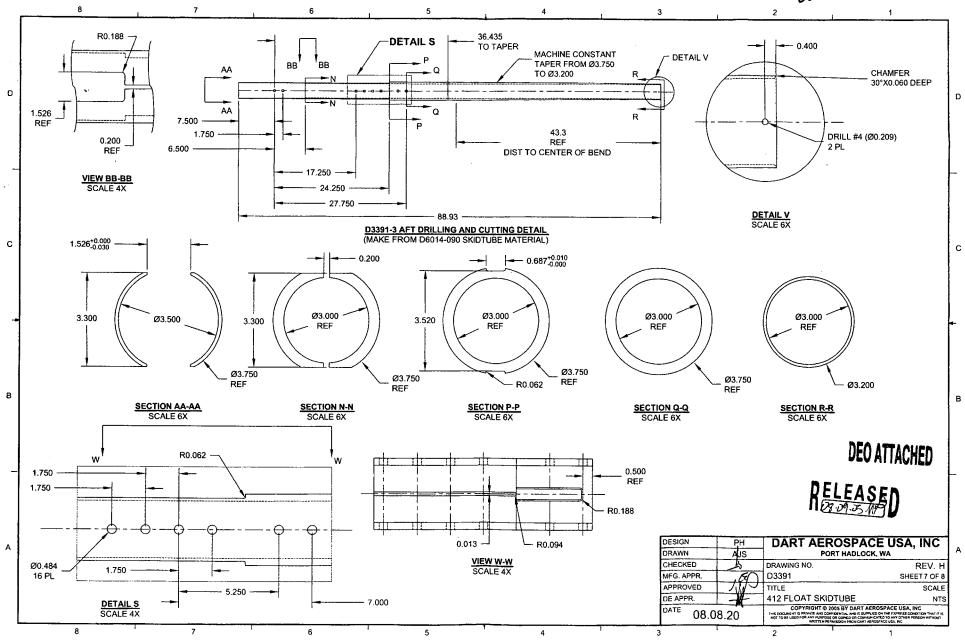
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W/O:			W	ORK ORDER CHANG	ES			<del></del>	•	
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:		
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DATE	STEP	Description of NC			verit			Approval	Approval	
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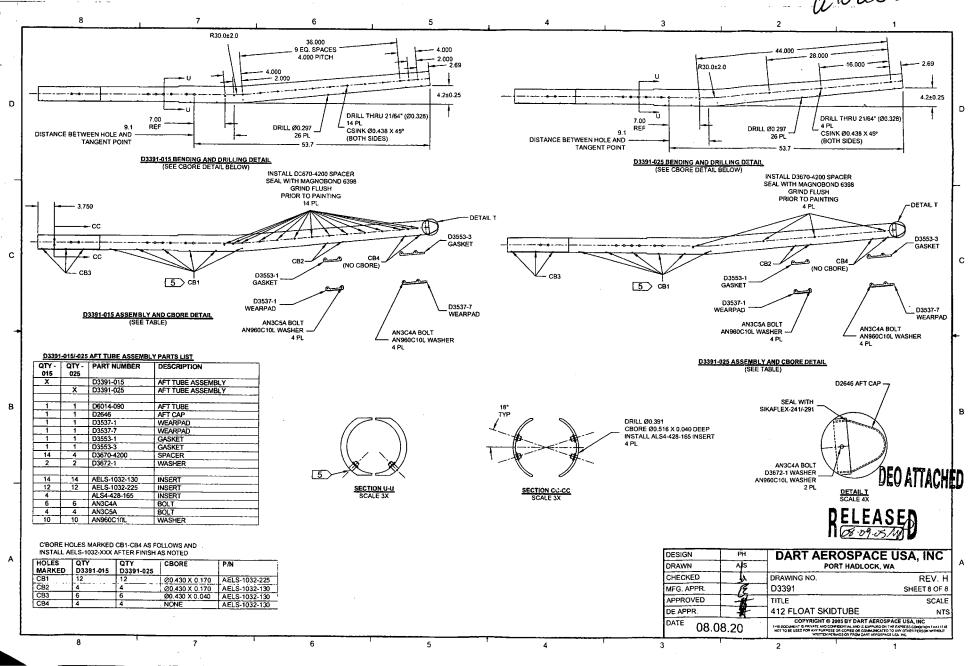
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## **Dart Aerospace Ltd**

W/O: WORK ORDER CHANGES									
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Resolution:			Disposit	ion:	_ QA: N/C	Closed	:	Date: _	
NCR:			WORK ORI	DER NON-CONFORMA	ANCE (NO	CR)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section  Action Description  Chief Eng	on B Sig Da	n &	erification Section C	Approval Chief Eng	Approval QC Inspector

DRAWING N	VO.	TITLE		REV. H D	ART AEROS	SPACE USA, II	C D.E.O. NO.		SHEET	NO.	SCALE
D3391		412 FLOAT	SKIDTUBE	,	ENGINEE	RING ORDER	D3391-H-1	_	SHEET	OF, 1	NTS
DRAWN	G/		CHECKED	Į,	MFG. APPR.	<b>W</b>	APPROVED MA	)	DE APPR.	# > .	
DATE	09.09.2	23	DATE (	04.04.24	DATE 09	109125	DATE 09/09/	30	DATE (	A 09/3	ь

#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### **CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

PELEASED 2010-02-02 Who 68989

## **Dart Aerospace Ltd**

W/O:		WORK OR	DER CHANGES			Age.	***
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							*
					ı		

Part No:	. بر	_PAR #:	Fault Category:	NCR: Yes No DQA:	Date:	
	Resolution:		Disposition:	QA: N/C Closed:	Date:	_

NCR:		- f	WORK ORI	DER NON-CONFORMANC	E (NCR)			7
DATE		Description of NC	Corrective Action Section B			Verification	Annroyal Annroyal	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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NO. 244

# AWS D17.1.2001 QUALIFICATION TEST RECORD

<b>つ</b>	CII Han
Name: <u>DC</u>	Alay Ellioff
Job number:	<u>65328</u>
Part number:	13391-023
Description:	mid tube
Welding Proces	s: Tig[L] Mig[]
Base materiel:	Cellernessen
Current: AC[	

# TEST REQUIREMENTS AND RESULTS '

Visual: Penetration:	pass[ ] fail[ ] pass[ ] fail[ ]
UNACCEPTABLE	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[4] fail[ ]
Qualifier fat fierres Welder Barday Most	Date of Test Coupon // 0/-18  Date of Test Coupon // 0/-18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld